PTO/SB/05 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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HTH ITV		cy Doonor		427.002.00				
UTILITY	First II	First Inventor Sung Hun						
PATENT APPLICATION		SHADO	7\A/ N/A	SK STDUCT	HPE EOD O	್ ©⊂adohta:		
TRANSMITTAL	Title	RAYT		SK STRUCT	OKE I OK C	ATTIODED		
(Only for new nonprovisional applications under 37 CFR 1.53(b)	, L	1001	<u> </u>			986 10/69/01		
		ss Mail Lai	bel No.			288		
				MS Patent	Application	- 2		
APPLICATION ELEMENTS		ADDD	ESS TO	Camminaia	ner for Patents			
See MPEP chapter 600 concerning utility patent application	contents.		L33 10	P.O. BOX 14		_		
		<u> </u>			VA 22313-145			
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)		7.		or CD-R in duplic Program <i>(Appen</i>	ate, large table or			
Applicant claims small entity status.			leotide and	or Amino Acid S	equence Submissi	ion		
See 37 CFR 1.27.	40 .			Il necessary)				
	191	a.	Comput	er Readable Forr	n (CRF)			
(preferred arrangement set forth below) - Descriptive title of the invention		b. S	pecification	Sequence Listin	g on:			
 Cross Reference to Related Applications 			i. C	D-ROM or CD-R	(2 copies); or	ii. Paper		
 Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, 		с.	Stateme	nts verifying ider	itity of above copie	3S		
or a computer program listing appendix - Background of the Invention					PLICATIONS P.			
- Brief Summary of the Invention		9. X						
 Brief Description of the Drawings (if filed) Detailed Description]9. [X		-	sheet & document			
- Claim(s) - Abstract of the Disclosure		10.		73(b) Statement e is an assignee	1	ver of rney		
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets	10	11.			ent (if applicable)			
5. Oath or Declaration [Total Sheets	2 1	12. X		n Disclosure (IDS)/PTO-1449	X Copies of Citations			
a. X Newly executed (original or copy)		13.		y Amendment				
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)		14. X		ceipt Postcard (N e specifically item				
DELETION OF INVENTOR(S)		15. X Certified Copy of Priority Document(s) (if foreign priority is claimed)						
Signed statement attached deleting inventor(s) named in the prior application,			16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).					
see 37 CFR 1.63(d)(2) and 1.33(b).		l"			PTO/SB/35 or its	equivalent.		
		17. X	Outlot.	heck for \$1,09	0.00 y and Submissio	on of		
6. Application Data Sheet. See 37 CFR 1.76		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ocuments	y and Submissio	// O		
18. If a CONTINUING APPLICATION, check appropriate bo	x. and supp	ly the requis			the first sentence	of the specification		
following the title, or in an Application Data Sheet under 37 C		.,						
Continuation Divisional Continuati	ion-in-part (0	CIP) of pr	ior applicati	on No.:				
Prior application information: Examiner			_	\rt Unit:				
For CONTINUATION or DIVISIONAL APPS only: The entire	re disclosur	e of the prio		_	oath or declaratio	n is supplied		
under Box 5b, is considered a part of the disclosure of the ac reference. The incorporation can only be relied upon when a	ccompanyin	g continuati	on or divisi	onal application	and is hereby inco	rporated by		
	-	NDENCE			binitied applicatio	n parts.		
19. 00	JKKESPU	MDENCE	ADDRES	 		_		
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Customer Number or Bar Code Label				Or X	Correspondence	e address below		
MCKENNA LONG & ALDRID	GE LLP							
Song K. Jung								
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	State	DC		Zip Code	20006			
	Telephone		96-7500	Fe		-7756		
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Name (Print/Type) Rebesça Goldman Ru	gich	Regis	stration No.	(Attorney/Agent)	41,786			
Signature ANDCA HILL	4			Date	November 4	, 2003		

Under the Paperwork Reduction Act of 1995, no persons are requ	U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE luction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number							
FEE TRANSMITTAL		Complete if Known						
	Application Number			Numb	JI	TBA		
for FY 2003		Filing	Date		November 4, 2003			
Effective 01/01/2003, Patent fees are subject to annual revision.		First Named Inventor						
		Examiner Name			Not Yet Assigned	Not Yet Assigned		
Applicant claims small entity status. See 37 CFR 1.27		Art Ur	nit		N/A			
TOTAL AMOUNT OF PAYMENT (\$) 1,090.00		Attorn	ey Do	cket N	27427.002.00	27427.002.00		
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)						
X Check Credit Money Order Other None	3. ADDITIONAL FEES							
Deposit Account								
Deposit Deposit	Large	e Entity	Small	Entity				
Account Number 50-0911	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Deposit Account McKenna Long & Aldridge LLP	1051	130	2051	65	Surcharge – late filing fee or oath			
Name	1052	50	2052	25	Surcharge – late provisional filing fee or co	over		
The Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below X Credit any overpayments	1053	130	1053	130	sheet.			
Charge any additional fee(s) during the pendency of this					Non-English specification			
application	1812	2,520	1812		For filing a request for ex parte reexamination Requesting publication of SIR prior to	· · · · · · · · · · · · · · · · · · ·		
Charge fee(s) indicated below, except for the filing fee	1804	920*	1804	920*	Examiner action			
to the above-identified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action			
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month			
1. BASIC FILING FEE	1252	410	2252	205	Extension for reply within second month			
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid	1253	930	2253	465	Extension for reply within third month			
Fee Fee Fee Fee Fee Pee Pee Pee Paid Code (\$) Code (\$)	1254	1,450	2254	725	Extension for reply within fourth month			
1001 770 2001 385 Utility filing fee 770.00	1255	1,970	2255	985	extension for reply within fifth month			
1002 340 2002 170 Design filing fee	1401	320	2401	160	Notice of Appeal			
1003 530 2003 265 Plant filing fee 1004 770 2004 385 Reissue filing fee	1402 1403	320 280	2402	160 140	Filing a brief in support of an appeal Request for oral hearing			
1005 160 2005 80 Provisional filing fee	1451	1,510	1451		Petition to institute a public use proceeding			
	1452	110	2452	55	Petition to revive – unavoidable	9		
SUBTOTAL (1) (\$) 770.00	1453	1,300	2453	650	Petition to revive - unintentional			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)			
Extra Fee from Claims below Fee Paid	1502	470	2502	235	Design issue fee			
Total Claims 26 -20** = 6 x 18.00 = 108.00	1503	630	2503	315	Plant issue fee			
Independent 5 -3** = 2 x 86.00 = 172.00	1460	130	1460	130	Petitions to the Commissioner			
Claims	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)			
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stm			
Fee Fee Fee Fee Code (\$) Fee Description	8021	40	8021	40	Recording each patent assignment per	40.00		
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	property (times number of properties) Filing a submission after final rejection (37 CFR 1.129(a))			
1201 86 2201 43 Independent claims in excess of 3	1810	750	2810	375	For each additional invention to be	<u> </u>		
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1801	750	2801	375	examined (37CFR 1.129(b)) Request for Continued Examination (RCE)	, 		
over original patent	1802	900	1802	900	Request for expedited examination	′ 		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent			l	500	of a design application			
		fee (spe	• •	line F	Doid CUDTOTAL (2) (2)	40.00		
**or number previously paid, if greater; For Reissues, see above	'Kedi	ced by l	sasic Fi	ung ree	Paid SUBTOTAL (3) (\$)	40.00		
SUBMITTED BY		-			Complete (if applicable)			

SUBMITTED BY					Complete (if applicable)		
Name (Print/Type) Rebect	a Goldman Rudich	Registration No. (Attorney/Agent)	41,786	Telephone	(202) 496-7463		
Signature 4	Beccapter 4	1		Date	November 4, 2003		